

Name: _____ Period: _____ Date _____

Total Points
_____ of 28

Find the next two terms of each sequence:

1. **3, 7, 11, 15, 19,** _____, _____

Points
_____ of 1

Fill in the circles for the following sequence.

2. **3 4 7 12 19 28**

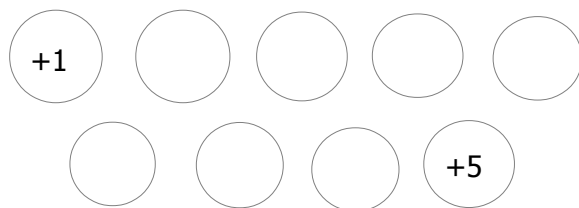
First Difference

Second Difference

Points
_____ of 3

Fill in all the necessary circles to solve for the sequence:

3. _____ **-4** **+2** _____



Constant Difference

Points
_____ of 4

Evaluate each expression when the value of the variable is 1, 2, and 3.

4. $2x + 5$

x	$y = 2(x) + 5$	y
1		
2		
3		

4b. True or False: The dependent variable **y** depends on the independent variable **x**.

5. $4x - 7$

x	1	2	3
$y = 4x - 7$			
y			

Points
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5b. True or False: An equation connects two expressions with an equal sign.

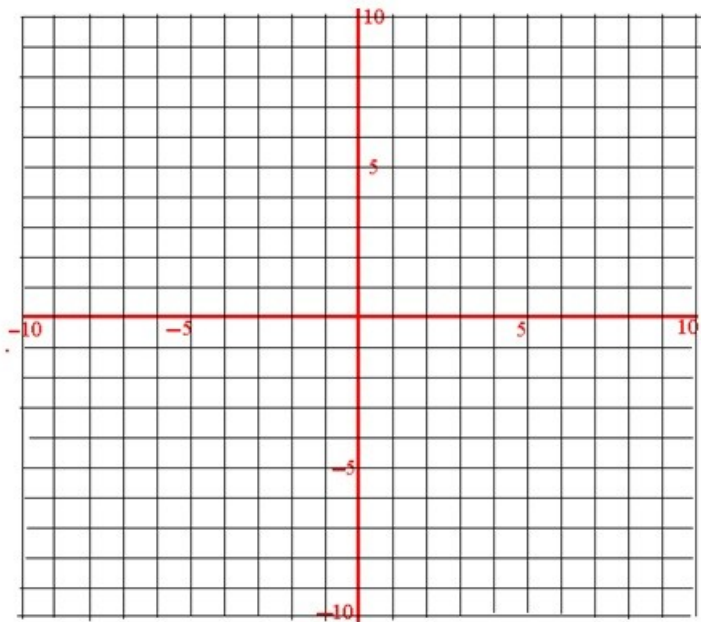
Use order of operations to solve the following numeric expressions:

6. $[12 + (4 - 3) \cdot 2] + 12 \div 3$

7. $(16 - 4) \div 3 + 5 \cdot 2 - 3$

Points
____ of 4

8. **Label the quadrants (I, II, III, IV) and plot the following ordered pairs** in the graph provided:
A(7, 0), B(5, -6), C(-7, 6) and D(-8, 0)



Points
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9. Find the first differences for the data set, and write an expression to represent the data pattern:

0	1	2	3	4	5
7	11	15	19	23	27

Ans: _____x + _____
Hint: Coefficient of x and a constant

Points
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Bonus: Find the first differences for the data set, and write an expression to represent the data pattern:

	4	8	12	14	16
	80	60	40	20	0

Ans: _____

Bonus: Find the first differences for the data set, and write an expression to represent the data pattern:

	5	10	15	20	25
	25	0	-25	-50	-75

Ans: _____

Bonus: Find the first differences for the data set, and write an expression to represent the data pattern:

	2	4	6	8	10
	14	8	2	-4	-10

Ans: _____x + _____